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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-08-20-06** **Date: 23-08-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/11/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-06 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-08-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	248	248	1.7	98.3	90-100
3	20 mm	7899	8147	54.3	45.7	30-70
4	10 mm	4411	12558	83.7	16.3	10-35
5	4.75 mm	2075	14633	97.6	2.4	0-5
6	Pan	367	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-08-20-06** **Date: 23-08-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/11/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-06 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-08-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	214	214	4.3	95.7	90-100
3	10 mm	2892	3106	62.1	37.9	25-55
4	4.75 mm	1466	4572	91.4	8.6	0-10
5	Pan	428	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-29-04 **Date: 03/09/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.

Agency : Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/11/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-18

Sample ID No : 2018-08-29-04 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	149.66 X 151.47 X 150.24	22669	8.175	383.1	16.9	
2	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	150.66 X 150.47 X 149.63	22670	8.166	410.3	18.1	17.5
3	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	150.24 X 149.66 X 151.22	22485	8.021	393.5	17.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-29-04 **Date: 03/09/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.

Agency : Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/11/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-18

Sample ID No : 2018-08-29-04 /05

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	149.67 X 151.23 X 150.47	22635	8.173	421.0	18.6	18.0
2	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	150.89 X 150.66 X 151.24	22733	8.166	404.6	17.8	
3	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	150.47 X 150.26 X 149.78	22610	8.175	395.7	17.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-29-04** **Date: 03/09/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.

Agency : Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/11/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-18

Sample ID No : 2018-08-29-04 /07

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	149.86 X 151.45 X 150.48	22696	8.177	409.9	18.1	18.0
2	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	150.48 X 151.44 X 150.69	22789	8.165	398.8	17.5	
3	Cement Concrete Pavement	M20	27/08/2018	03/09/2018	149.87 X 150.66 X 151.47	22579	8.054	415.5	18.4	

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-08-18

Lab ID	:	CP-2018-08-20-06
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	EE(YNK_D)E-PMT-19/W.O/11/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-06 /01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 70%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.89	_
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-09-18

Lab ID	:	CP-2018-08-20-06
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Malleshwari temple road and surrounding area in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Venkategowda No.531/1, 14th A Cross, A Sector Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/11/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-06 /01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 70%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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